

AMENDMENTS TO THE CLAIMS:

1. (Currently amended) A cGMP-visualizing probe, comprising:
a polypeptide that binds specifically to cGMP, wherein the polypeptide is obtained by deleting amino acids 1 to 47 of cGMP-dependent protein kinase I α (PKG I α); and
two chromophores with different fluorescence wavelengths, one of which is ~~are each~~ linked separately to the N-terminal and the other of which is linked to the C-terminal ~~two terminals~~ of the polypeptide.

2-3. (Canceled)

4. (Previously presented) The cGMP-visualizing probe of claim 1, wherein the chromophores are cyan fluorescent protein linked to the N-terminal of the polypeptide and yellow fluorescent protein linked to the C-terminal of the polypeptide.

5. (Previously presented) A method for detecting and quantifying cGMP, which comprises:
making the cGMP-visualizing probe of claim 1 coexist with cGMP; and
measuring the change in the fluorescence wavelength.

6. (Withdrawn) The method for detecting and quantifying cGMP of claim 5, which comprises introducing a polynucleotide expressing the cGMP-visualizing probe into cells, whereby making the cGMP-visualizing probe coexist with cGMP.

7. (Withdrawn) The method for detecting and quantifying cGMP of claim 5, which comprises:
introducing a polynucleotide expressing the cGMP-visualizing probe into cells; and
performing ontogenesis from the non-human animal totipotent cells, thereby making the cGMP-visualizing probe coexist with cGMP in every cell of the resultant animal or its offspring.

8. (Withdrawn) A non-human animal or offspring thereof, which is obtained by introducing a polynucleotide expressing a cGMP-visualizing probe of claim 1 into cells and performing ontogenesis from the non-human animal totipotent cells.

9. (Withdrawn) A method for screening a substance, which comprises introducing a test sample containing the substance into a non-human animal or offspring thereof of claim 8, and quantifying cGMP in the cells of the non-human animal or offspring thereof.